Tomohiro Kuwae

List of Publications by Year
in descending order

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74	2,040	304743	254184
papers	citations	22 h-index	43 g-index

83	83	83	2121
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The future of Blue Carbon science. Nature Communications, 2019, 10, 3998.	12.8	406
2	How organic carbon derived from multiple sources contributes to carbon sequestration processes in a shallow coastal system?. Global Change Biology, 2015, 21, 2612-2623.	9.5	119
3	BIOFILM GRAZING IN A HIGHER VERTEBRATE: THE WESTERN SANDPIPER,CALIDRIS MAURI. Ecology, 2008, 89, 599-606.	3.2	112
4	Role of carbonate burial in Blue Carbon budgets. Nature Communications, 2019, 10, 1106.	12.8	105
5	Net uptake of atmospheric <scp>CO</scp> ₂ by coastal submerged aquatic vegetation. Global Change Biology, 2014, 20, 1873-1884.	9.5	103
6	Variable and complex food web structures revealed by exploring missing trophic links between birds and biofilm. Ecology Letters, 2012, 15, 347-356.	6.4	102
7	Determination of Abundance and Biovolume of Bacteria in Sediments by Dual Staining with 4â€²,6-Diamidino-2-Phenylindole and Acridine Orange: Relationship to Dispersion Treatment and Sediment Characteristics. Applied and Environmental Microbiology, 1999, 65, 3407-3412.	3.1	84
8	Macroalgal metabolism and lateral carbon flows can create significant carbon sinks. Biogeosciences, 2020, 17, 2425-2440.	3.3	72
9	A benthicâ€“pelagic coupled ecosystem model to estimate the hypoxic estuary including tidal flatâ€”Model description and validation of seasonal/daily dynamics. Ecological Modelling, 2008, 215, 10-39.	2.5	70
10	Effect of emersion and immersion on the porewater nutrient dynamics of an intertidal sandflat in Tokyo Bay. Estuarine, Coastal and Shelf Science, 2003, 57, 929-940.	2.1	61
11	Oxygen exchange flux between sediment and waterin an intertidal sandflat, measured in situ by the eddy-correlation method. Marine Ecology - Progress Series, 2006, 307, 59-68.	1.9	55
12	A comparison of CO₂ dynamics and airâ€water fluxes in a riverâ€dominated estuary and a mangroveâ€dominated marine estuary. Geophysical Research Letters, 2016, 43, 11,726.	4.0	52
13	Blue carbon in human-dominated estuarine and shallow coastal systems. Ambio, 2016, 45, 290-301.	5.5	51
14	Burrowing Criteria and Burrowing Mode Adjustment in Bivalves to Varying Geoenvironmental Conditions in Intertidal Flats and Beaches. PLoS ONE, 2011, 6, e25041.	2.5	49
15	Foraging mode shift in varying environmental conditions by dunlin Calidris alpina. Marine Ecology - Progress Series, 2010, 406, 281-289.	1.9	48
16	Lateral carbon fluxes and CO2 evasion from a subtropical mangrove-seagrass-coral continuum. Science of the Total Environment, 2021, 752, 142190.	8.0	38
17	Implementation of blue carbon offset crediting for seagrass meadows, macroalgal beds, and macroalgae farming in Japan. Marine Policy, 2022, 138, 104996.	3.2	33
18	Biofilm Consumption and Variable Diet Composition of Western Sandpipers (Calidris mauri) during Migratory Stopover. PLoS ONE, 2015, 10, e0124164.	2.5	32

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19	Radiocarbon isotopic evidence for assimilation of atmospheric CO₂ by the seagrass <i>Zostera marina</i>. Biogeosciences, 2015, 12, 6251-6258.	3.3	28
20	Modeling a coastal ecosystem to estimate climate change mitigation and a model demonstration in Tokyo Bay. Ecological Modelling, 2018, 384, 261-289.	2.5	24
21	Seed dispersal in the seagrass Zostera marina is mostly within the parent bed in a protected bay. Marine Ecology - Progress Series, 2015, 523, 41-56.	1.9	24
22	Dissolved inorganic nitrogen cycling in Banzu intertidal sand-flat, Japan. Mangroves and Salt Marshes, 1998, 2, 167-175.	0.6	23
23	Relative seaâ€level change regulates organic carbon accumulation in coastal habitats. Global Change Biology, 2019, 25, 1063-1077.	9.5	23
24	Integration of Submerged Aquatic Vegetation Motion Within Hydrodynamic Models. Water Resources Research, 2020, 56, e2020WR027369.	4.2	21
25	Contributions of the direct supply of belowground seagrass detritus and trapping of suspended organic matter to the sedimentary organic carbon stock in seagrass meadows. Biogeosciences, 2018, 15, 4033-4045.	3.3	17
26	Total alkalinity flux in coral reefs estimated from eddy covariance and sediment pore-water profiles. Limnology and Oceanography, 2015, 60, 229-241.	3.1	16
27	Linking climate change mitigation and adaptation through coastal greenâ€“gray infrastructure: a perspective. Coastal Engineering Journal, 2021, 63, 188-199.	1.9	16
28	Migratory movements of rhinoceros auklets in the northwestern Pacific: connecting seasonal productivities. Marine Ecology - Progress Series, 2015, 525, 229-243.	1.9	15
29	Increasing temperature induces shorter leaf life span in an aquatic plant. Oikos, 2009, 118, 1158-1163.	2.7	13
30	Global Trends in Airâ€Water CO₂ Exchange Over Seagrass Meadows Revealed by Atmospheric Eddy Covariance. Global Biogeochemical Cycles, 2021, 35, e2020GB006848.	4.9	13
31	Reduction in Riverine Freshwater Supply Changes Inorganic and Organic Carbon Dynamics and Airâ€Water CO₂ Fluxes in a Tropical Mangrove Dominated Estuary. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006144.	3.0	13
32	Biotransport of metallic trace elements from marine to terrestrial ecosystems by seabirds. Environmental Toxicology and Chemistry, 2019, 38, 106-114.	4.3	12
33	Green port structures and their ecosystem services in highly urbanized Japanese bays. Coastal Engineering Journal, 2021, 63, 310-322.	1.9	12
34	Spatial and seasonal impacts of submerged aquatic vegetation (SAV) drag force on hydrodynamics in shallow waters. Journal of Marine Systems, 2020, 209, 103373.	2.1	11
35	Feather mercury concentration in streaked shearwaters wintering in separate areas of southeast Asia. Marine Ecology - Progress Series, 2016, 546, 263-269.	1.9	11
36	Low CO2 evasion rate from the mangrove-surrounding waters of the Sundarbans. Biogeochemistry, 2021, 153, 95-114.	3.5	10

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37	Contribution of Biological Effects to Carbonateâ€System Variations and the Airâ€“Water CO₂ Flux in Urbanized Bays in Japan. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016974.	2.6	10
38	Seagrass contributes substantially to the sedimentary lignin pool in an estuarine seagrass meadow. Science of the Total Environment, 2021, 793, 148488.	8.0	10
39	NATIONWIDE ESTIMATE OF THE ANNUAL UPTAKE OF ATMOSPHERIC CARBON DIOXIDE BY SHALLOW COASTAL ECOSYSTEMS IN JAPAN. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2019, 75, 10-20.	0.4	10
40	Method for the quantitative evaluation of ecosystem services in coastal regions. PeerJ, 2019, 6, e6234.	2.0	9
41	New possibilities for climate change countermeasures in ports: Organic carbon containment and creation of blue carbon ecosystems through beneficial utilization of dredged soil. Marine Policy, 2022, 141, 105072.	3.2	9
42	Ageâ€•and sexâ€•related dietary specialization facilitate seasonal resource partitioning in a migratory shorebird. Ecology and Evolution, 2021, 11, 1866-1876.	1.9	8
43	Ecological geotechnics: Role of waterfront geoenvironment as habitats in the activities of crabs, bivalves, and birds for biodiversity restoration. Soils and Foundations, 2013, 53, 246-258.	3.1	7
44	The Future of Blue Carbon: Addressing Global Environmental Issues. , 2019, , 347-373.		7
45	Benthic Filtering Reduces the Abundance of Primary Producers in the Bottom Water of an Open Sandy Beach System (Kashimanada Coast, Japan). Geophysical Research Letters, 2020, 47, e2019GL085338.	4.0	7
46	CO2 Uptake in the Shallow Coastal Ecosystems Affected by Anthropogenic Impacts. , 2019, , 295-319.		6
47	Nitrogen fluxes between the ocean and a river basin using stable isotope analysis. Estuarine, Coastal and Shelf Science, 2018, 212, 286-293.	2.1	5
48	Airâ€“Water CO2 Flux in Shallow Coastal Waters: Theory, Methods, and Empirical Studies. , 2019, , 153-184.		5
49	A comparative method for evaluating ecosystem services from the viewpoint of public works. Ocean and Coastal Management, 2021, 212, 105848.	4.4	5
50	EELGRASS MODEL CONSIDERING INTERACTION WITH FLOW FIELD. Journal of Japan Society of Civil Engineers Ser B3 (Ocean Engineering), 2017, 73, I_821-I_826.	0.3	5
51	Biofilm and invertebrate consumption by western sandpipers (Calidris mauri) and dunlin (Calidris alpina)during spring migratory stopover: insights from tissue and breath CO2 isotopic (Î´13C,Î´15N) analyses. , 2022, 10, coac006.		5
52	Drivers of inorganic carbon dynamics and airâ€“water <scp>CO₂</scp> fluxes in two large tropical estuaries: Insights from coupled radon (<scp>²²²Rn</scp>) and <scp>pCO₂</scp> surveys. Limnology and Oceanography, 2022, 67, .	3.1	5
53	Effects of watershed land-cover on the biogeochemical properties of estuarine tidal flat sediments: A test in a densely-populated subtropical island. Estuarine, Coastal and Shelf Science, 2017, 184, 207-213.	2.1	4
54	An unintended ecological benefit from human intervention: The enhancement of carbon storage in seagrass meadows. Journal of Applied Ecology, 2021, 58, 2441.	4.0	4

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55	Seven ecological and technical attributes for biofilmâ€based recovery of shorebird populations in intertidal flat ecosystems. Ecological Solutions and Evidence, 2021, 2, .	2.0	4
56	Transport and deposition of macrophytes to the dysphotic bottom of coastal waters. Aquatic Botany, 2010, 92, 289-293.	1.6	3
57	The seasonal trophic link between Great Cormorant Phalacrocorax carbo and ayu Plecoglossus altivelis altivelis reared for mass release. Ecological Research, 2018, 33, 935-948.	1.5	3
58	Improved Post-processing of Eddy-Covariance Data to Quantify Atmosphereâ€“Aquatic Ecosystem CO2 Exchanges. Frontiers in Marine Science, 2018, 5, .	2.5	3
59	Implementation of Japanese Blue Carbon Offset Crediting Projects. Structure and Function of Mountain Ecosystems in Japan, 2022, , 353-377.	0.5	2
60	Oxygen Consumption Mechanism in the Benthic Ecosystem of Tokyo Bay. Proceedings of Coastal Engineering Jsce, 2008, 55, 1206-1210.	0.1	1
61	CHARACTERISTICS OF NITROGEN AND PHOSPHORUS BUDGETS AT A TIDAL FLAT IN TOKYO PORT WILD BIRD PARK. Journal of Japan Society of Civil Engineers, 2013, 1, 145-161.	0.2	1
62	EVALUATION OF THE COASTAL PROTECT FUNCTION AND THE PORT FUNCTION OF TIDAL FLATS IN TOKYO BAY. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2015, 71, I_1651-I_1656.	0.4	1
63	CO2 Fluxes in Mangrove Ecosystems. , 2019, , 185-221.		1
64	Improvement of the coral growth and cost-effectiveness of hybrid infrastructure by an innovative breakwater design in Naha Port, Okinawa, Japan. Coastal Engineering Journal, 2021, 63, 248-262.	1.9	1
65	EFFECT OF WATER VELOCITY THROUGH CAISSON JOINTS ON THE CORAL DISTRIBUTION ON BREAKWATERS. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2019, 75, I_1147-I_1152.	0.4	1
66	ESTIMATION METHOD FOR ECOSYSTEM SERVICES OF FOOD PROVISION IN TIDAL FLATS AND SEAGRASS BEDS. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2020, 76, I_973-I_978.	0.4	1
67	Special issue on coastal blue carbon and green infrastructure. Coastal Engineering Journal, 2021, 63, 187-187.	1.9	1
68	DEVELOPMENT OF A SEAGRASS MODEL IN WAVES AND UNIDIRECTIONAL CURRENTS. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2018, 74, I_31-I_36.	0.4	1
69	Title is missing!. Proceedings of Civil Engineering in the Ocean, 2004, 20, 323-328.	0.0	0
70	Role of Waterfront Geoenvironments in the Relationships between Birds, Sediments and Benthos. Proceedings of Coastal Engineering Jsce, 2008, 55, 1171-1175.	0.1	0
71	Oxygen Consumption Flux Across the Sediment. Proceedings of Coastal Engineering Jsce, 2008, 55, 1001-1005.	0.1	0
72	Factors Affecting Leachability Test Results for Sediment PCDDs/DFs and Co-PCBs. Journal of Japan Society on Water Environment, 2010, 33, 87-96.	0.4	0

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73	Small Shorebirds Feast On Green Slime To Fuel Their Long Migration. Frontiers for Young Minds, 0, 9, .	0.8	0
74	SEASONAL CHANGES IN ENVIRONMENTAL DNA IN SEAGRASS BEDS AND EXAMINATION OF WATER SAMPLING PROCEDURE. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2020, 76, I_943-I_948.	0.4	0